Drying Tumblers

Refer to page 3 for Model Numbers

Programming

Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Part No. 70408601R3
April 2008

Installation must conform with local codes or in the absence of local codes with:

In the U.S.A., installation must conform to the latest edition of the American National Standard Z223.1/NFPA 54 "National Fuel Gas Code" and Standard ANSI/NFPA 70 "National Electric Code."

In Canada, installation must comply with Standards CSA B149.1 or Natural Gas and Propane Code CSA C22.1, latest edition, Canadian Electric Code, Part I.

In Australia, installation must comply with the Australian Gas Association Installation Code for Gas Burning Appliances and Equipment.

WARNING

FOR YOUR SAFETY, the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death.

W033

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS:**
  - **Do not try to light any appliance.**
  - **Do not touch any electrical switch; do not use any phone in your building.**
  - **Clear the room, building or area of all occupants.**
  - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
  - **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

W052

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

W053

MISE EN GARDE

POUR VOTRE SÉCURITÉ, les informations de ce guide doivent être respectées afin de réduire les risques d'incendie, d'explosion ou d'éviter les dommages matériels, personnels ou blessures mortelles.

W033R3QU

- **Ne pas entreposer ou utiliser d'essence ou toutes autres vapeurs et liquides inflammables à proximité de cette machine ou de tout autre appareil.**
- **QUE FAIRE EN CAS D'ODEUR DE GAZ :**
  - **Ne pas mettre d'appareil en marche.**
  - **Ne pas toucher aux interrupteurs électriques ; ne pas utiliser le téléphone des lieux.**
  - **Évacuer la pièce, le bâtiment ou la zone de tous les occupants.**
  - **Appeler immédiatement le fournisseur de gaz de la maison d'un voisin. Respecter les instructions communiquées par le fournisseur.**
  - **Si vous ne pouvez pas joindre le fournisseur de gaz, appeler le service d'incendie.**
- **L'installation et l'entretien doivent être effectués par un installateur, service d'entretien qualifiés ou par le fournisseur de gaz.**

W052R5QU

POUR VOTRE SÉCURITÉ

Ne pas entreposer ou utiliser d'essence ou toutes autres vapeurs et liquides inflammables à proximité de cette unité ou de tout autre appareil.

W053R2QU

IMPORTANT: Information must be obtained from a local gas supplier on instructions to be followed if the user smells gas. These instructions must be posted in a prominent location. Step-by-step instructions of the above safety information must be posted in a prominent location near the tumbler for customer use.

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Introduction

Model Identification

Information in this manual is applicable to these models:

	Gas	Steam/Thermal Oil	Electric
25 Pound	GA025L KA025L GA025N KA025N GT025L KT025L GT025N KT025N GU025L KU025L GU025N KU025N	GT025S KT025S GU025S KU025S	GT025E KT025E GU025E KU025E
30 Pound	GA030L GA030N GT030L GT030N GU030L GU030N	GT030S GU030S	GT030E GU030E
35 Pound	GA035L KA035L GA035N KA035N GT035L KT035L GT035N KT035N GU035L KU035L GU035N KU035N	GT035S KT035S GU035S KU035S	GT035E KT035E GU035E KU035E
50 Pound	GA050L KA050L GA050N KA050N GT050L KT050L GT050N KT050N GU050L KU050L GU050N KU050N	GT050S KT050S GT050T KT050T GU050S KU050S GU050T KU050T	GT050E KT050E GU050E KU050E
55 Pound	GT055L KT055L GT055N KT055N	Not Applicable	GT055E KT055E
75 Pound	GA075L KA075L GA075N KA075N GT075L KT075L GT075N KT075N GU075L KU075L GU075N KU075N	GT075S KT075S GT075T KT075T GU075S KU075S GU075T KU075T	GT075E KT075E GU075E KU075E
120 Pound	GA120L KA120L GA120N KA120N GT120L KT120L GT120N KT120N GU120L KU120L GU120N KU120N	GT120S KT120S GT120T KT120T GU120S KU120S GU120T KU120T	Not Applicable
170 Pound	GA170L KA170L GA170N KA170N GT170L KT170L GT170N KT170N GU170L KU170L GU170N KU170N	GT170S KT170S GT170T KT170T GU170S KU170S GU170T KU170T	Not Applicable

Includes models with the following control suffixes:

OM –OPL micro

RM –reversing OPL micro

Wiring Diagram

The wiring diagram is located in the junction or contactor box.

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Safety Information

Precautionary statements ("DANGER," "WARNING" and "CAUTION"), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

IMPORTANT: Warranty is void unless drying tumbler is installed according to instructions in the Installation Manual. Compliance with minimum specifications and requirements detailed herein, and with applicable local gas fitting regulations, municipal building codes, water supply regulations, electrical wiring regulations, and any other relevant statutory regulations. Because of varied requirements, applicable local codes should be thoroughly understood and all pre-installation work arranged for accordingly.

WARNING

Failure to install, maintain, and/or operate this machine according to manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.

W051R1

NOTE: The WARNING and IMPORTANT instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and carefulness are factors which CANNOT be built into this tumbler. These factors MUST BE supplied by the person(s) installing, maintaining or operating the tumbler.

Always contact your dealer, distributor, service agent or the manufacturer on any problems or conditions you do not understand.

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Important Safety Instructions

Save These Instructions

WARNING

Hazardous Voltage. Can cause shock, burn or cause death. Allow machine power to remain off for two minutes prior to working in and around AC inverter drive.

W359

1. Read all instructions before using the tumbler.
2. Refer to the ***Grounding Instructions*** for the proper grounding of the tumbler.
3. Do not dry articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not allow children on or in the tumbler. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
5. Before the tumbler is removed from service or discarded, remove the door to the drying compartment and the door to the lint compartment.
6. Do not reach into the tumbler if the cylinder is revolving.
7. Do not install or store the tumbler where it will be exposed to water and/or weather.
8. Do not tamper with the controls.
9. Do not repair or replace any part of the tumbler, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.
10. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
11. To reduce the risk of fire, DO NOT DRY plastics or articles containing foam rubber or similarly textured rubberlike materials.
12. Always clean the lint filter daily.
13. Keep area around the exhaust opening and adjacent surrounding area free from the accumulation of lint, dust, and dirt.
14. The interior of the tumbler and the exhaust duct should be cleaned periodically by qualified service personnel.
15. If not installed, operated and maintained in accordance with the manufacturer's instructions or if there is damage to or mishandling of this product's components, use of this product could expose you to substances in the fuel or from fuel combustion which can cause death or serious illness and which are known to the State of California to cause cancer, birth defects or other reproductive harm.
16. Tumbler will not operate with the loading door open. DO NOT bypass the door safety switch to permit the tumbler to operate with the door open. The tumbler will stop tumbling when the door is opened. Do not use the tumbler if it does not stop tumbling when the door is opened or starts tumbling without pressing or turning the START mechanism. Remove the tumbler from use and call the service person.
17. Tumbler will not operate with lint panel open. DO NOT bypass lint panel safety switch to permit the tumbler to operate with the lint panel open.
18. Do not put articles soiled with vegetable or cooking oil in the tumbler, as these oils may not be removed during washing. Due to the remaining oil, the fabric may catch on fire by itself.
19. To reduce the risk of fire, DO NOT put clothes which have traces of any flammable substances such as machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops and cleaning cloths, or anything dry-cleaned at home with dry-cleaning solvent in the tumbler.
20. Use the tumbler only for its intended purpose, drying water-washed fabrics.
21. ALWAYS disconnect the electrical power to the tumbler before servicing. Disconnect power by shutting off appropriate breaker or fuse.
22. Install this tumbler according to the ***Installation Instructions***. All connections for electrical power, grounding, and gas supply must comply with local codes and be made by licensed personnel when required.

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23. Remove laundry immediately after tumbler stops.
24. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of reach of children at all times (preferably in a locked cabinet).
25. Do not tumble fiberglass curtains and draperies unless the label says it can be done. If they are dried, wipe out the cylinder with a damp cloth to remove particles of fiberglass.
26. Always follow the fabric care instructions supplied by the garment manufacturer.
27. Never operate the tumbler with any guards and/or panels removed.
28. DO NOT operate the tumbler if it is smoking, grinding or has missing or broken parts.
29. DO NOT bypass any safety devices.
30. Solvent vapors from dry-cleaning machines create acids when drawn through the heater of the drying unit. These acids are corrosive to the tumbler as well as to the laundry load being dried. Be sure make-up air is free of solvent vapors.
31. Failure to install, maintain and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

WARNING

To reduce the risk of serious injury, install lockable door(s) to prevent public access to rear of tumblers.

W055

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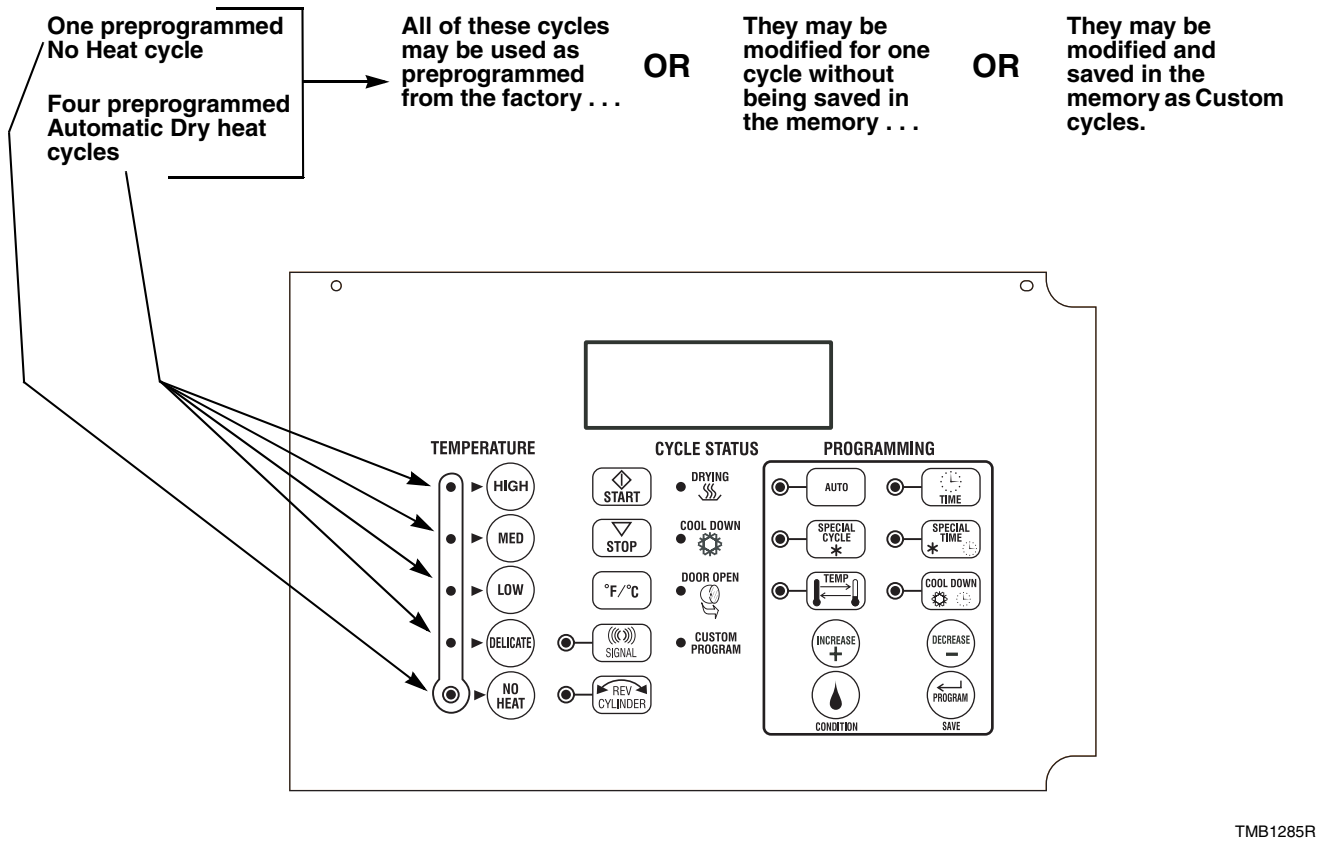
Programming the Electronic OPL Control



NOTE: Not all tumblers will have reversing option.

Figure 1

Introduction to Programming

Drying can be done automatically or by time dry. When drying automatically, the tumbler stops drying when laundry reaches the factory-set or programmed dryness level and starts Cool Down. When time drying, the tumbler stops drying when programmed time ends and starts Cool Down.

Both Automatic Dry and Time Dry have factory-set cycles, but other cycles can also be created. Frequently used cycles can be saved in the control's memory as custom cycles.

In all cycles except No Heat, Wrinkle-Free begins when Cool Down ends. During Wrinkle-Free, the tumbler alternately stops for 2.5 minutes and then runs without heat for 2.5 minutes until door is opened or 60 minutes has elapsed.

A custom heat cycle may be saved in one of four ways using the ON/SELECT pads of HIGH, MED, LOW and DELICATE. Refer to *Table 1*.

Custom Cycles	
Automatic Dry	Dries the load to one of eleven user-selectable dryness levels for a given fabric type, and then enters automatic or user-variable Cool Down.
Time Dry	Duplicates the functions of electromechanical dual timer controls, allowing the user to vary temperature, drying time and Cool Down time.
Special Cycle	Allows the user to specify the number of heating cycles and to select from the full range of temperatures for all heat cycles.
Special Time	Similar to Time Dry, except that the user may specify from 80°F (27°C) to 180°F (82°C) for any heat cycle.

Table 1

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Signal

Refer to *Figure 2*.

The signal has three loudness levels that can be set anytime the control is activated. Pressing the SIGNAL pad once produces the softest tone. Press the pad again to increase signal volume. The fourth press turns the tone and light off. The loudness level selected is for all cycles until changed.

When the signal is on and any key pad is pressed, it sounds at the selected level to confirm the pad was properly pressed.

Reversing

Refer to *Figure 2.*

NOTE: Not all tumblers will have the reversing option.

When this is selected, the cylinder will rotate in one direction for 25 seconds, pause for six seconds, then rotate in the opposite direction for 25 seconds.

This sequence will repeat until the selected cycle ends. To turn reversing option off, press the REV CYLINDER pad. (Anytime REV CYLINDER pad is pressed, the cylinder will pause for six seconds.)

Status Lights

Refer to *Figure 2*.

DOOR OPEN	Lights when door is open. **NOTE: Display window also flashes.**
DRYING	Lights when laundry is drying.
COOL DOWN	Lights when laundry is cooling.
CUSTOM PROGRAM	Lights when a custom cycle is programmed, recalled or running.
SIGNAL	When lit, the signal will sound when the laundry is ready for removal.
REV CYLINDER	When lit, the cylinder will rotate in one direction for 25 seconds, pause for 6 seconds, then rotate in the opposite direction for 25 seconds.

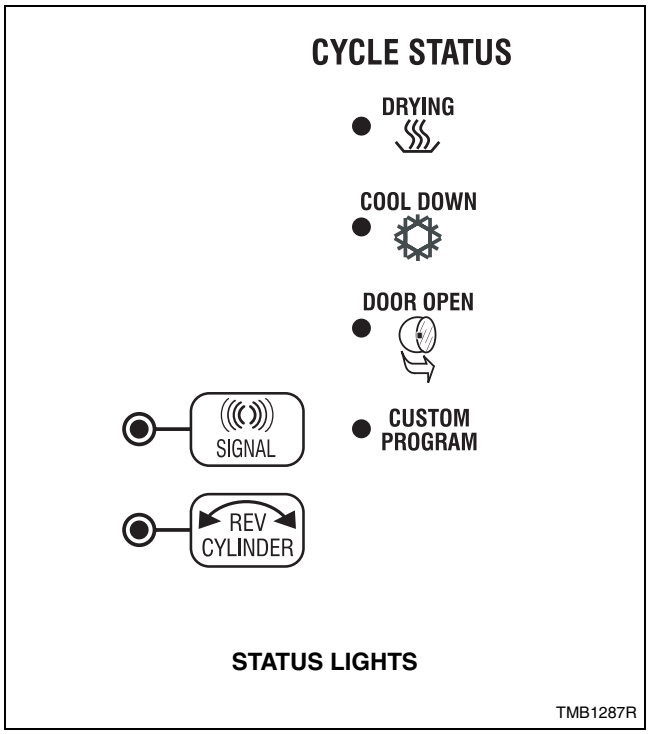

Figure 2

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Automatic Dry and Condition Mode

When a temperature is selected, "A0:00" will appear in the display window. Press START to start the tumbler. "A*:**" will appear in the display window. The first "*" is the selected dryness level (dryness levels less than zero will appear as "-*"), and the ":**" is the elapsed time.

The degree of dryness can be altered. Use the INCREASE pad or the DECREASE pad to change the dryness level.

NOTE: Dryness level can only be altered prior to the end of the first heat cycle.

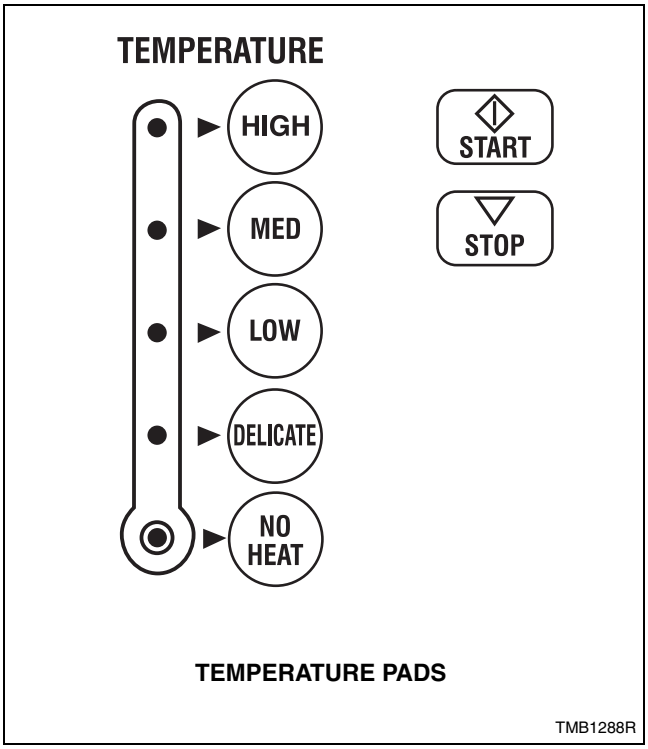

Figure 3

When clothes reach selected dryness level, Cool Down begins. "AC:**" will appear in the display window. ":**" is the elapsed Cool Down time. When Cool Down ends, tumbler automatically goes into Wrinkle-Free and "Lr" (Load Ready) will appear in the display.

"AC:**" will be displayed when tumbler is in Auto Cool Down. Typical Cool Down times for fabric selections are preset as shown in *Table 2*. The Cool Down time can only be altered before cycle is started. To alter Cool Down time, press the COOL DOWN pad and then press the INCREASE or DECREASE pad (when Cool Down time is altered, "TC:**" will be displayed). For one minute changes, press pad and release. For five minute changes, press pad and hold. Cooling time can be from 1 to 39 minutes. To return to the Auto Cool Down, press INCREASE or DECREASE pad until "AC:**" is displayed.

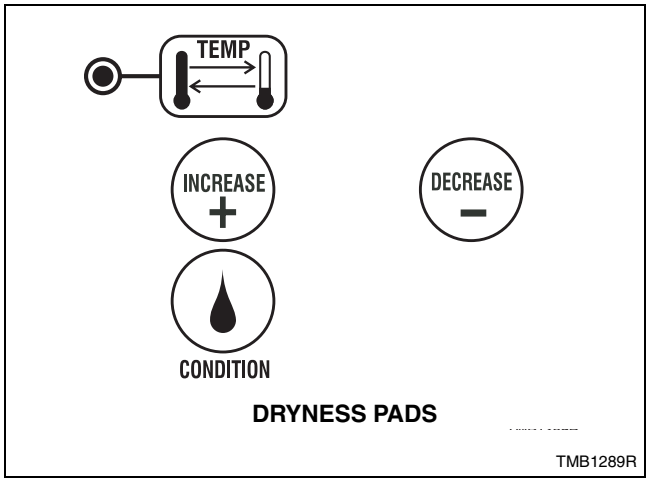

Figure 4

Use the CONDITION pad for items to be left damp for ironing. "Cn:00" will replace "A0:00" in the display.

Automatic Cool Down ends when either a preset temperature or a preset time is reached. Refer to *Table 2*.

Automatic Cool Down Temperatures and Times		
Fabric	**Preset Temperature**	**Preset Time**
HIGH	100°F, 38°C	5 Min.
MED	90°F, 32°C	8 Min.
LOW	90°F, 32°C	5 Min.
DELICATE	90°F, 32°C	5 Min.

Table 2

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Time Dry and No Heat Modes

After temperature selection, press the TIME pad. Refer to *Figure 5*.

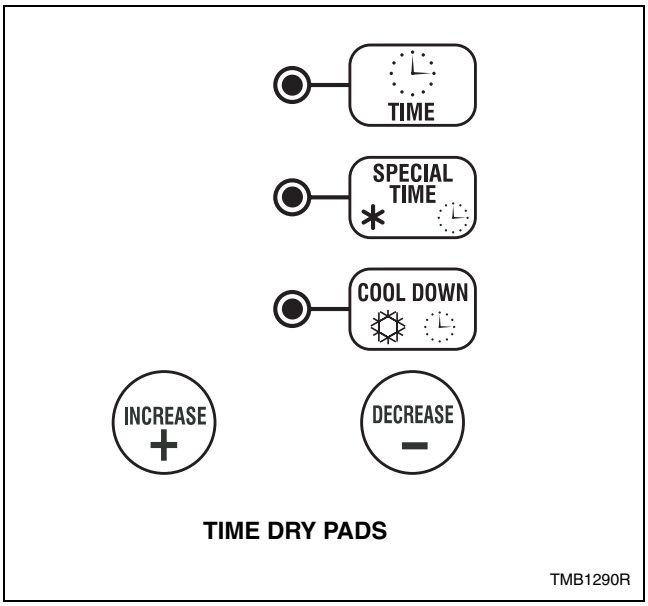

Figure 5

A preset drying time, "Td:**", will replace "A0:00" in the display. This time can be changed by pressing the INCREASE or DECREASE pad. For one minute changes, press pad and release. For five minute changes, press pad and hold. Maximum drying time allowed is 60 minutes. Refer to *Table 3* for preset drying times.

Cycle	Preset Time	Range
HIGH	35 Min.	1 – 60 Min.
MED	20 Min.	1 – 60 Min.
LOW	15 Min.	1 – 60 Min.
DELICATE	30 Min.	1 – 60 Min.
NO HEAT	20 Min.	1 – 60 Min.

Table 3

"AC:**" will be displayed when tumbler is in Auto Cool Down. Typical Cool Down times for fabric selections are preset as shown in *Table 2*. The Cool Down time can only be altered before cycle is started. To alter Cool Down time, press the COOL DOWN pad and then press the INCREASE or DECREASE pad (when Cool Down time is altered, "TC:**" will be displayed). For one minute changes, press pad and release. For five minute changes, press pad and hold. Cooling time can be from 1 to 39 minutes. To return to the Auto Cool Down, press INCREASE or DECREASE pad until "AC:**" is displayed.

To start the cycle, press START. The total drying time plus Cool Down time will display. During the cycle, remaining time displays.

No Heat is a Time Dry cycle only. When NO HEAT is pressed, a 20 minute preset time will display. This can be changed from 1 minute to 60 minutes by pressing the INCREASE or DECREASE pad before pressing START. The COOL DOWN pad does not work in No Heat cycles.

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Custom Cycles

Frequently used cycles can be saved in the control's memory as custom cycles. Only one cycle can be saved for each temperature selection.

Create an Automatic, Time Dry, Special or Special Time cycle, and save it by pressing the word PROGRAM SAVE before pressing START. To change a custom cycle, repeat above.

To recall and use a custom cycle, press its temperature pad twice. Press START.

During custom cycles, the display is the same as non-custom automatic cycles. The CUSTOM PROGRAM status light will be on.

When creating or changing a custom cycle, record it on a custom Cycle Record. Refer to sample below. To modify or fine-tune a custom cycle, its values must be known. Custom cycle values can be extracted from the micro-control, but it is easier and more permanent to use a Custom Cycle Record.

Custom Cycle Record

Select	Automatic		Time		Temp	Load Type
	Dryness Level	Cool Down	Dry	Cool Down		
HIGH						
MED						
LOW						
DELICATE						
NO HEAT						

Select	Special		Special Time		Temp	Load Type
	Dryness Level	Cool Down	Dry	Cool Down		
HIGH						
MED						
LOW						
DELICATE						
NO HEAT						

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Special Cycle Mode

This allows the user to select the number of times the tumbler will cycle from heat-on to heat-off. To enter the Special Cycle Mode, press the SPECIAL CYCLE pad after selecting a cycle. The display will read "SC:**". "**" is the number of times the tumbler will cycle from heat-on to heat-off. This number can be changed by pressing the INCREASE or DECREASE pad. For increments of one, press pad and release. For increments of five, press pad and hold for three seconds. Range is from 1 to 99.

Press the START pad. The number shown after "SC:" is the number of cycles selected. The number will decrease as each cycle is completed. The default Cool Down cycle for the Special Cycle Mode is Automatic Cool Down.

NOTE: Since there are only 60 minutes of cycle time, any cycles not completed within 60 minutes will be skipped.

NOTE: Unlike the Time Dry Mode and Automatic Mode, the regulating temperature in the Special Cycle Mode has a range of 80°F (27°C) to 180°F (82°C) or all heat cycles.

Special Time Mode

This mode is just like the Time Dry Mode, except that the regulating temperature for each heat cycle ranges from 80°F (27°C) to 180°F (82°C). To enter the Special Time Mode, press the SPECIAL TIME pad after selecting a cycle. The display will read "St:**", where "**" is the drying time. This time can be changed by pressing the INCREASE or DECREASE pad. For one minute changes, press the pad and release. For five minute changes, press the pad and hold. Maximum drying time allowed is 60 minutes.

"AC:**" will be displayed when tumbler is in Auto Cool Down. Typical Cool Down times for fabric selections are preset. The Cool Down time can only be altered before cycle is started. To alter Cool Down time press the COOL DOWN pad and then press the INCREASE or DECREASE pad (when Cool Down time is altered, "TC:**" will be displayed). For one minute changes, press pad and release. For five minute changes, press pad and hold. Cooling time can be from 1 to 39 minutes. To return to the Auto Cool Down, press INCREASE or DECREASE pad until "AC:**" is displayed.

To start the cycle, press START. The total drying time plus Cool Down time will display. During the cycle, remaining time displays.

Security Lock-Out

The programming pads can be "locked-out" so operators cannot change cycles on their own. When lock-out is used, the operator can use only the factory-set Automatic cycles and the one Custom Program cycle allowed per SELECT pad. Before using lock-out, create all desired Custom cycles.

To lock-out, hold SIGNAL pad and press INCREASE in the idle mode.

To unlock, hold SIGNAL pad and press DECREASE in the idle mode.

Show Mode

This mode will show all LEDs and light up entire display while deactivating all pads. This mode allows loading door to be opened and closed. To enter this mode, the control must first be in the idle mode. Hold the START pad and press the PROGRAM SAVE pad. To exit Show Mode, hold the START pad and press the PROGRAM SAVE pad.

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Temperature Sensor

To test the temperature sensor, hold COOL DOWN pad and press the TEMP pad in the idle mode. This will show the temperature detected by the control.

"SH" displays and signal sounds if the temperature sensor is shorted or sensor temperature is over 200°F (93°C). Press the STOP pad twice within three seconds and allow the tumbler to cool, then press a temperature pad. If "SH" still displays, call for service.

"OP" displays and signal sounds three minutes after the tumbler is started if the temperature sensor is faulty or if a temperature below 24°F (-4.4°C) is detected. If dryer temperature is above 24°F (-4.4°C), call for service.

NOTE: To display the software revision level, hold the AUTO pad and press the TIME pad while the control is in idle mode.

Temperature Adjustment

Selecting a fabric type selects a preset ideal temperature for that fabric. Lower temperatures may be needed for small loads or when air flow through the tumbler is less than ideal due to inadequate make-up air or exhaust ducting.

Whenever the control is on, but not in No Heat, Cool Down or Load Ready, pressing the TEMP pad displays the three digits of the set temperature. Use the INCREASE or DECREASE pad to change the temperature.

Temperature Display (°F/°C)

To select between Fahrenheit and Celsius display, hold in the °F/°C pad while pressing the TEMP pad.

NOTE: Temperature can be set from 80°F (27°C) to 180°F (82°C) in the SPECIAL CYCLE and SPECIAL TIME options only.

To include an adjusted temperature in a Custom cycle, simply adjust temperature before pressing CUSTOM PROGRAM.

Cylinder Temperature Display

To see the approximate temperature at the exit of the cylinder, press and hold the °F/°C pad (50 to 170 pound models only). For 25 and 35 pound models, the control program temperature for the active cycle will be displayed when pressing °F/°C pad.

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